

DESIGN PANEL NO. 37 10-31-97

PROPULSION ADVISORY TOOL (PAT) - Randy Lane

OVERVIEW

The Propulsion Advisory Tool is an existing CCMS advisory systems application and is begin re-hosted into CLCS. PAT's main function is to warn of events that could lead to LO2 geyser. In addition, the knowledge base provides intelligent sensor monitoring, real-time LO2 saturation conditions, real-time LO2 bleed flow calculations, instrumentation pre-processor health status of all black boxes with good/bad data tag for each measurements, real-time MPS/SSME helium mass calculation, Orbiter MPS helium system model, and electrical schematic model for MPS valves.

ACTIONS

ACTIONEE

DUE DATE

STATUS

No action required

*Approved

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APU NEURAL NET TOOL - Alan Zide

OVERVIEW

The APU Neural Net Tool (ANNT) is an expert system software application that has been developed using Gensym's G2 and NeurOn-Line software. The tool combines a real-time display, individual pulse diagnostics, and supported by expert system heuristics to ensure accurate results.

ACTIONS

ACTIONEE

DUE DATE

STATUS

*Approved

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JVIEW REQUIREMENTS - Steve Beltz

OVERVIEW

The JView system provides a display interface to a variety of shuttle data streams in a fashion similar to the existing PCGOAL application (but running as a window in a desktop environment). The primary function of JView is the display of measurement values on user desktop computers via JAVA-enabled Web-browsers. These values are viewed by the user from graphical display screens (initially, PCGOAL DSP skeletons) and plot screens. As a “monitoring only” system, JView is not intended to replace or conflict with existing or planned checkout and firing room applications.

ACTIONS

ACTIONEE

DUE DATE

STATUS

No action required

*Approved